

# SEQUENCE LISTING

<110> APOGENIX Biotechnology AG

<120> Improved FC Fusion Proteins

<130> 31098PWO-HC

<140> PCT/EP2004/003239

<141> 2004-03-26

<150> PCT/2004/003239

<151> 2004-03-26

<160> 82

<170> PatentIn Ver. 2.1

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer  
for the amplification of CD95 cDNA

<220>

<223> Sense huCD95-Hind III

<400> 1

tataaagctt gccaccatgc tgggcatctg

30

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for  
the amplification of CD95 cDNA

<220>

<223> Antisense huCD95-BgI II

<400> 2

tataagatct ggatccttcc tctttgc

27

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

for the amplification of IgG1 Fc cDNA

<220>

<223> Sense hulgG1Fc-BgIII

<400> 3

tataagatct tgtgacaaaa ctcacacatg

30

<210> 4

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for  
the amplification of IgG1 Fc cDNA

<220>

<223> Antisense hulgG1Fc-XhoI

<400> 4

tataactcgag tcattttaccc ggagacaggg

30

<210> 5

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for  
the changing the Kozak Sequence from GCCACCATGC to  
GCCGCCACCATGG

<220>

<223> ShuCD95EC\_altKozak

<400> 5

tataaagctt gccgccacca tgggtgggcat c

31

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer  
for the changing the Kozak Sequence from  
GCCACCATGC to GCCGCCACCATGG

<220>

<223> AS698 hulgG1Fc-XhoI

<400> 6

tataactcgag tcattttaccc ggagacaggg

30

<210> 7  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer for  
amplifying cDNA of human IgG1 Fc (partial hinge  
CH3)

<220>  
<223> Sense\_hulgG1

<400> 7  
ccagggactc ctgcctcttg tgacaaaact cacacatg

38

<210> 8  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer for  
amplifying cDNA of human IgG1 Fc (partial hinge  
CH3)

<220>  
<223> Antisense\_ERIhulgG1

<400> 8  
tatagaattc tcattttaccc ggagacaggg

30

<210> 9  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer used to  
amplify the cDNA of TRAILR2 domain

<220>  
<223> Sense\_HIII\_TRAILR2

<400> 9  
tataaagctt gccgccacca tggaacaacg gggacagaac

40

<210> 10  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer used to amplify the cDNA of TRAILR2 domain

<220>

<223> Antisense\_TRAILR2

<400> 10

gtgagttttg tcacaagagg caggagtccc tgg

33

<210> 11

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for PCR used to utilize fragments for cloning purposes

<220>

<223> Sense\_HIII\_TRAILR2

<400> 11

tataaagctt gccgccacca tggaacaacg gggacagAAC

40

<210> 12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for PCR used to utilize fragments for cloning purposes

<220>

<223> Antisense\_ERIhulgG1

<400> 12

tatagaattc tcatttaccc ggagacaggg

30

<210> 13

<211> 335

<212> PRT

<213> human

<220>

<223> CD95 >sp/P25445/TNR6\_HUMAN Tumor necrosis factor receptor superfamily 6 precursor (FASL-receptor) (Apoptosis-mediating surface antigen FAS) (Apo-1 antigen) (CD95) - Homo sapiens (Human)

<400> 13

Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala

1	5	10	15
Arg	Leu	Ser	Ser
	20		
Lys	Gly	Leu	Glu
	35		
Leu	Glu	Gly	Leu
	50		
Pro	Gly	Glu	Arg
	65		
Asp	Cys	Val	Pro
	85		
Phe	Ser	Ser	Lys
	100		
Leu	Glu	Val	Glu
	115		
Cys	Lys	Pro	Asn
	130		
Pro	Cys	Thr	Lys
	145		
Ser	Asn	Thr	Lys
	165		
Leu	Cys	Leu	Leu
	180		
Lys	Glu	Val	Gln
	195		
Ser	His	Glu	Ser
	210		
Ser	Asp	Val	Asp
	225		
Thr	Leu	Ser	Gln
	245		
Ala	Lys	Ile	Asp
	260		
Gln	Lys	Val	Gln
	275		
Glu	Ala	Tyr	Asp
	290		
Thr	Leu	Ala	Glu

305		310		315		320								
Asp	Ser	Glu	Asn	Ser	Asn	Phe	Arg	Asn	Glu	Ile	Gln	Ser	Leu	Val
			325						330					335

<210> 14  
 <211> 330  
 <212> PRT  
 <213> human

<220>  
 <223> IgG1 > sp/P01857/GC1\_HUMAN Ig gamma-1 chain C  
 region - Homo sapiens (Human)

<400> 14  
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
 1 5 10 15  
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 20 25 30  
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45  
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60  
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 65 70 75 80  
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 85 90 95  
 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
 100 105 110  
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
 115 120 125  
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
 130 135 140  
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 145 150 155 160  
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
 165 170 175  
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
 180 185 190  
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
 195 200 205  
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly

210		215		220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu				
225		230	235	240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr				
	245		250	255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn				
	260		265	270
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe				
	275		280	285
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn				
	290		295	300
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr				
305		310	315	320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys				
	325		330	

<210> 15  
 <211> 400  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MUTAGEN  
 <222> (1)..(400)  
 <223> CD95-Fc fusion protein (AA 1-172 CD95 and AA  
 102-330 IgG1)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 15  
 Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala  
 1 5 10 15  
 Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser  
 20 25 30  
 Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val Glu Thr Gln Asn  
 35 40 45  
 Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro  
 50 55 60  
 Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro  
 65 70 75 80  
 Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His  
 85 90 95

Phe	Ser	Ser	Lys	Cys	Arg	Arg	Cys	Arg	Leu	Cys	Asp	Glu	Gly	His	Gly		
			100					105					110				
Leu	Glu	Val	Glu	Ile	Asn	Cys	Thr	Arg	Thr	Gln	Asn	Thr	Lys	Cys	Arg		
			115				120					125					
Cys	Lys	Pro	Asn	Phe	Phe	Cys	Asn	Ser	Thr	Val	Cys	Glu	His	Cys	Asp		
	130					135					140						
Pro	Cys	Thr	Lys	Cys	Glu	His	Gly	Ile	Ile	Lys	Glu	Cys	Thr	Leu	Thr		
145					150					155					160		
Ser	Asn	Thr	Lys	Cys	Lys	Glu	Glu	Gly	Ser	Arg	Ser	Cys	Asp	Lys	Thr		
				165					170					175			
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser		
			180					185					190				
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg		
		195					200					205					
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro		
	210					215					220						
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala		
225					230					235					240		
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val		
				245					250					255			
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr		
			260					265					270				
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr		
		275					280					285					
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu		
	290					295					300						
Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys		
305					310					315					320		
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser		
				325					330					335			
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp		
			340					345					350				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser		
		355					360					365					
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala		
	370					375					380						
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys		
385					390					395					400		



<210> 16  
<211> 43  
<212> PRT  
<213> human

<220>  
<223> CD95 extracellular domain (AA 131-173)

<400> 16  
Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys  
1 5 10 15

Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn  
20 25 30

Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn  
35 40

<210> 17  
<211> 22  
<212> PRT  
<213> human

<220>  
<223> huIgG1 (AA 99-120)

<400> 17  
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
1 5 10 15

Pro Glu Leu Leu Gly Gly  
20

<210> 18  
<211> 60  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD95-Fc fusion protein of CD95 extracellular domain (AA 131-173) and huIgG1 (AA99-120) with an overlapping amino acid (CD95 AA 172 and huIgG1 AA 102)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 18

Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys  
1 5 10 15  
Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn  
20 25 30  
Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Cys Asp Lys Thr His Thr  
35 40 45  
Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
50 55 60

<210> 19

<211> 468

<212> PRT

<213> human

<220>

<223> TRAIL-R1 >sp/000220/T10A\_HUMAN Tumor necrosis  
factor receptor superfamily member 10A precursor  
(Death receptor 4) (TNF-related  
apoptosis-including ligand receptor 1) (TRAIL  
receptor-1) (TRAIL-R1)

<400> 19

Met Ala Pro Pro Pro Ala Arg Val His Leu Gly Ala Phe Leu Ala Val  
1 5 10 15  
Thr Pro Asn Pro Gly Ser Ala Ala Ser Gly Thr Glu Ala Ala Ala Ala  
20 25 30  
Thr Pro Ser Lys Val Trp Gly Ser Ser Ala Gly Arg Ile Glu Pro Arg  
35 40 45  
Gly Gly Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro  
50 55 60  
Ser Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Arg Pro Ala Arg  
65 70 75 80  
Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val Val  
85 90 95  
Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr Ile Lys  
100 105 110  
Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His Ser Pro Leu  
115 120 125  
Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu His Pro Gly Ala  
130 135 140  
Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr Asn Ala Ser Asn Asn

145					150					155					160
Leu	Phe	Ala	Cys	Leu	Pro	Cys	Thr	Ala	Cys	Lys	Ser	Asp	Glu	Glu	Glu
				165					170					175	
Arg	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	Thr	Ala	Cys	Gln	Cys	Lys	Pro
			180					185					190		
Gly	Thr	Phe	Arg	Asn	Asp	Asn	Ser	Ala	Glu	Met	Cys	Arg	Lys	Cys	Ser
		195					200					205			
Arg	Gly	Cys	Pro	Arg	Gly	Met	Val	Lys	Val	Lys	Asp	Cys	Thr	Pro	Trp
	210					215					220				
Ser	Asp	Ile	Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Asn	Gly	His	Asn	Ile
225					230					235					240
Trp	Val	Ile	Leu	Val	Val	Thr	Leu	Val	Val	Pro	Leu	Leu	Leu	Val	Ala
				245					250					255	
Val	Leu	Ile	Val	Cys	Cys	Cys	Ile	Gly	Ser	Gly	Cys	Gly	Gly	Asp	Pro
			260					265						270	
Lys	Cys	Met	Asp	Arg	Val	Cys	Phe	Trp	Arg	Leu	Gly	Leu	Leu	Arg	Gly
		275					280					285			
Pro	Gly	Ala	Glu	Asp	Asn	Ala	His	Asn	Glu	Ile	Leu	Ser	Asn	Ala	Asp
	290					295					300				
Ser	Leu	Ser	Thr	Phe	Val	Ser	Glu	Gln	Gln	Met	Glu	Ser	Gln	Glu	Pro
305					310					315					320
Ala	Asp	Leu	Thr	Gly	Val	Thr	Val	Gln	Ser	Pro	Gly	Glu	Ala	Gln	Cys
				325					330					335	
Leu	Leu	Gly	Pro	Ala	Glu	Ala	Glu	Gly	Ser	Gln	Arg	Arg	Arg	Leu	Leu
			340					345					350		
Val	Pro	Ala	Asn	Gly	Ala	Asp	Pro	Thr	Glu	Thr	Leu	Met	Leu	Phe	Phe
		355					360					365			
Asp	Lys	Phe	Ala	Asn	Ile	Val	Pro	Phe	Asp	Ser	Trp	Asp	Gln	Leu	Met
	370					375					380				
Arg	Gln	Leu	Asp	Leu	Thr	Lys	Asn	Glu	Ile	Asp	Val	Val	Arg	Ala	Gly
385					390					395					400
Thr	Ala	Gly	Pro	Gly	Asp	Ala	Leu	Tyr	Ala	Met	Leu	Met	Lys	Trp	Val
				405					410					415	
Asn	Lys	Thr	Gly	Arg	Asn	Ala	Ser	Ile	His	Thr	Leu	Leu	Asp	Ala	Leu
			420					425					430		
Glu	Arg	Met	Glu	Glu	Arg	His	Ala	Lys	Glu	Lys	Ile	Gln	Asp	Leu	Leu
		435					440					445			
Val	Asp	Ser	Gly	Lys	Phe	Ile	Tyr	Leu	Glu	Asp	Gly	Thr	Gly	Ser	Ala

450

455

460

Val Ser Leu Glu  
465

<210> 20  
<211> 39  
<212> PRT  
<213> human

<220>  
<223> Trail R1 extracellular domain (AA 201-239)

<400> 20  
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val  
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys  
20 25 30

Glu Ser Gly Asn Gly His Asn  
35

<210> 21  
<211> 54  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R1-Fc fusion protein of Trail R1  
extracellular domain (AA 201-239) and huIgG1  
(AA99-120) with an overlapping amino acid (TRAILR1  
AA 233 and huIgG1 AA 99)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 21  
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val  
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys  
20 25 30

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
35 40 45

Pro Glu Leu Leu Gly Gly  
50

<210> 22

<211> 51  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Trail-R1-Fc fusion protein of Trail R1  
extracellular domain (AA 201-239) and huIgG1 (AA  
99-120) with an overlapping amino acid (TRAILR1 AA  
232 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 22

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val  
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys  
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu  
35 40 45

Leu Gly Gly  
50

<210> 23  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Trail-R1-Fc fusion protein of Trail R1  
extracellular domain (AA 201-239) and huIgG1  
(AA99-120) with an overlapping amino acid (TRAILR1  
AA 234 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 23

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val  
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys  
20 25 30

Glu Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45

Leu Leu Gly Gly  
50

<210> 24  
<211> 51  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R1-Fc fusion protein of Trail R1  
extracellular domain (AA 201-239) and huIgG1  
(AA99-120) with an overlapping amino acid (TRAILR1  
AA 238 and huIgG1 AA 107)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 24  
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val  
1 5 10 15  
Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys  
20 25 30  
Glu Ser Gly Asn Gly His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu  
35 40 45  
Leu Gly Gly  
50

<210> 25  
<211> 440  
<212> PRT  
<213> human

<220>  
<223> Trail-R2 >sp/014763/T10B\_HUMAN Tumor necrosis  
factor receptor superfamily member 10B precursor  
(Death receptor 5) (TNF-related  
apoptosis-including ligand receptor 2) (TRAIL  
receptor-2) (TRAIL-R2)

<400> 25  
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys  
1 5 10 15  
Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro  
20 25 30  
Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu  
35 40 45  
Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln  
50 55 60  
Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu  
65 70 75 80

Cys	Pro	Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	Cys	Ile	Ser	85	90	95	
Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe	100	105	110	
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	115	120	125	
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	130	135	140	
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	145	150	155	160
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	165	170	175	
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Thr	Lys	His	Ser	Gly	Glu	Ala	Pro	180	185	190	
Ala	Val	Glu	Glu	Thr	Val	Thr	Ser	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Pro	195	200	205	
Cys	Ser	Leu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val	210	215	220	
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	Val	225	230	235	240
Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	Pro	Glu	245	250	255	
Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	Asn	Val	Leu	260	265	270	
Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	Glu	Gln	Glu	275	280	285	
Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	Met	Leu	Ser	290	295	300	
Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	Glu	Arg	Ser	305	310	315	320
Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	Pro	Thr	Glu	325	330	335	
Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp	340	345	350	
Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile	355	360	365	
Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr	370	375	380	

Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His  
 385 390 395 400

Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln  
 405 410 415

Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu  
 420 425 430

Gly Asn Ala Asp Ser Ala Met Ser  
 435 440

<210> 26  
 <211> 40  
 <212> PRT  
 <213> human

<220>  
 <223> Trail R2 (long) extracellular domain (AA 171-210),  
 "repeat" included

<400> 26  
 Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
 1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
 20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser  
 35 40

<210> 27  
 <211> 58  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R2(long)-Fc fusion protein of Trail R1  
 extracellular domain (AA 171-210) Trail R2 (long)  
 extracellular domain (AA 171-210), "repeat"  
 included) and huIgG1 (AA99-120) with an  
 overlapping amino acid

<220>  
 <223> Trail-R2(long)-Fc fusion protein of Trail R2  
 extracellular domain (AA 171-210; "repeat"  
 included) and huIgG1 (AA99-120) with an  
 overlapping amino acid (TRAIL-R2(long) AA 210 and  
 huIgG1 AA 102)

<220>  
 <223> Description of Artificial Sequence: fusion protein



<400> 27

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser Cys Asp Lys Thr His Thr Cys Pro  
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 28

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
extracellular domain (AA 171-210; "repeat"  
included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA 207 and  
huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 28

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr Pro Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
35 40 45

Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 29

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
extracellular domain (AA 171-210; "repeat"  
included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA 208 and  
huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 29

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr Pro Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro  
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 30

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
extracellular domain (AA 171-210; "repeat"  
included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA 205 and  
huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 30

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
35 40 45

Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 31

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R1  
extracellular domain (AA 171-210; "repeat"  
included) and huIgG1 (AA99-120) with an

overlapping amino acid (TRAIL-R2(long) AA 209 and  
huIgG1 AA 103)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 31

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr Pro Ala Ser Pro Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 32

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
extracellular domain (AA 171-210; "repeat"  
included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA 204 and  
huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 32

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro  
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40 45

<210> 33

<211> 21

<212> PRT

<213> human

<220>

<223> Trail R2 (long) extracellular domain (AA 171-191;  
"repeat" not included)

<400> 33

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Ala  
20

<210> 34

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
(long) extracellular domain (AA 171-191; "repeat"  
not included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA190 and  
huIgG1 AA99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 34

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro  
20 25 30

Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40

<210> 35

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2  
(long) extracellular domain (AA171-191; "repeat"  
not included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA186 and  
huIgG1 AA101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 35

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu  
20 25 30

Leu Gly Gly  
35

<210> 36  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R2(long)-Fc fusion protein of Trail R2  
(long) extracellular domain (AA171-191; "repeat"  
not included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA188 and  
huIgG1 AA102)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 36  
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15

His Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
20 25 30

Leu Leu Gly Gly  
35

<210> 37  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R2(long)-Fc fusion protein of Trail R2  
(long) extracellular domain (AA171-191; "repeat"  
not included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA185 and  
huIgG1 AA106)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 37  
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr His  
1 5 10 15

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
20 25

<210> 38  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R2(long)-Fc fusion protein of Trail R2  
(long) extracellular domain (AA171-191; "repeat"  
not included) and huIgG1 (AA99-120) with an  
overlapping amino acid (TRAIL-R2(long) AA187 and  
huIgG1 AA107)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 38  
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys  
1 5 10 15  
His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
20 25 30

<210> 39  
<211> 411  
<212> PRT  
<213> human

<220>  
<223> Trail-R2 (short) >sp/014763/T10B\_HUMAN Tumor  
necrosis factor receptor superfamily 10B precursor  
(Death receptor 5) (TNF-related apoptosis-inducing  
ligand receptor 2) (TRAIL receptor-2) (TRAIL-R2)

<400> 39  
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys  
1 5 10 15  
Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro  
20 25 30  
Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu  
35 40 45  
Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln  
50 55 60  
Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu  
65 70 75 80  
Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser  
85 90 95

Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe	100	105	110	
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	115	120	125	
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	130	135	140	
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	145	150	155	160
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	165	170	175	
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	180	185	190	
Ala	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	195	200	205	
Lys	Lys	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	210	215	220	
Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	225	230	235	240
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	245	250	255	
Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	260	265	270	
Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	275	280	285	
Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	290	295	300	
Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	305	310	315	320
Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	Leu	Met	Asp	325	330	335	
Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly	His	Arg	Asp	Thr	340	345	350	
Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	355	360	365	
Ser	Val	His	Thr	Leu	Leu	Asp	Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	370	375	380	
Ala	Lys	Gln	Lys	Ile	Glu	Asp	His	Leu	Leu	Ser	Ser	Gly	Lys	Phe	Met	385	390	395	400

Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser  
405 410

<210> 40  
<211> 34  
<212> PRT  
<213> human

<220>  
<223> Trail-R2 (short) extracellular domain (AA 151 - AA  
184)

<400> 40  
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys  
1 5 10 15  
Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu  
20 25 30

Ser Gly

<210> 41  
<211> 53  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R2(short)-Fc fusion protein of Trail R2  
(short) extracellular domain (AA 151-184) and  
huIgG1 (AA 99-120) with an overlapping amino acid  
(TRAIL-R2(short) AA 182 and huIgG1 AA 99)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 41  
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys  
1 5 10 15  
Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu  
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
35 40 45

Glu Leu Leu Gly Gly  
50

<210> 42  
<211> 50



<212> PRT  
<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2  
(short) extracellular domain (AA 151-184) and  
huIgG1 (AA 99-120) with an overlapping amino acid  
(TRAIL-R2(short) AA 181 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 42

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys  
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Ser  
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu  
35 40 45

Gly Gly  
50

<210> 43

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2  
(short) extracellular domain (AA 151-184) and  
huIgG1 (AA 99-120) with an overlapping amino acid  
(TRAIL-R2(short) AA 183 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 43

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys  
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu  
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu  
35 40 45

Leu Gly Gly  
50

<210> 44

<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R2(short)-Fc fusion protein of Trail R2  
(short) extracellular domain (AA 151-184) and  
huIgG1 (AA 99-120) with an overlapping amino acid  
(TRAIL-R2(short) AA 180 and huIgG1 AA 107)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 44  
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys  
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Thr Cys  
20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40

<210> 45  
<211> 259  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R3>sp/014798/T10C\_HUMAN Tumor necrosis  
factor receptor superfamily member 10C  
precursor;Decoy receptor 1;DcR1;Decoy TRAIL  
receptor without death domain;TNF-related  
apoptosis inducing ligand r3

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 45  
Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val Ala  
1 5 10 15

Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu  
20 25 30

Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe  
35 40 45

Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly  
50 55 60

Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn  
65 70 75 80

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys

85										90					95				
His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg	Asp	Thr	Val	Cys	Gln	Cys	Lys				
			100					105					110						
Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys				
		115					120					125							
Ser	Arg	Cys	Pro	Ser	Gly	Glu	Val	Gln	Val	Ser	Asn	Cys	Thr	Ser	Trp				
		130				135					140								
Asp	Asp	Ile	Gln	Cys	Val	Glu	Glu	Phe	Gly	Ala	Asn	Ala	Thr	Val	Glu				
145					150					155					160				
Thr	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala				
				165					170					175					
Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro				
			180				185						190						
Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala				
		195					200					205							
Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala				
	210					215					220								
Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Ser	His	Tyr				
225					230					235					240				
Leu	Ser	Cys	Thr	Ile	Val	Gly	Ile	Ile	Val	Leu	Ile	Val	Leu	Leu	Ile				
				245					250					255					
Val Phe Val																			

<210> 46  
 <211> 36  
 <212> PRT  
 <213> human

<220>  
 <223> Trail-R3 extracellular domain (AA 201-236;  
 "repeats" included)

<400> 46  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
 1 5 10 15  
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro  
 20 25 30  
 Gly Thr Pro Ala  
 35

<210> 47  
<211> 55  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 201-236; "repeats"  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 235 and huIgG1  
AA 100)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 47

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
1 5 10 15  
Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro  
20 25 30  
Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
35 40 45  
Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 48  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 201-236; "repeats"  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 232 and huIgG1  
AA 100)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 48

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
1 5 10 15  
Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro  
20 25 30  
Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45  
Leu Leu Gly Gly

<210> 49  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R3-Fc fusion protein of Trail-R3  
 extracellular domain (AA 201-236; "repeats"  
 included) and huIgG1 (AA 99-120) with an  
 overlapping amino acid (TRAIL-R3 AA 231 and huIgG1  
 AA 102)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 49  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
 1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Cys  
 20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly  
 35 40 45

Gly

<210> 50  
 <211> 48  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R3-Fc fusion protein of Trail-R3  
 extracellular domain (AA 201-236; "repeats"  
 included) and huIgG1 (AA 99-120) with an  
 overlapping amino acid (TRAIL-R3 AA 234 and huIgG1  
 AA 106)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 50  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
 1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro  
 20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly

<210> 51  
 <211> 44  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R3-Fc fusion protein of Trail-R3  
 extracellular domain (AA 201-236; "repeats"  
 included) and huIgG1 (AA 99-120) with an  
 overlapping amino acid (TRAIL-R3 AA 230 and huIgG1  
 AA 106)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 51  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
 1 5 10 15  
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr His Thr  
 20 25 30  
 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
 35 40

<210> 52  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R3-Fc fusion protein of Trail-R3  
 extracellular domain (AA 201-236; "repeats"  
 included) and huIgG1 (AA 99-120) with an  
 overlapping amino acid (TRAIL-R3 AA 229 and huIgG1  
 AA 106)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 52  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser  
 1 5 10 15  
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr His Thr Cys  
 20 25 30  
 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly

<210> 53  
 <211> 41  
 <212> PRT  
 <213> human

<220>  
 <223> Trail-R3 extracellular domain (AA 121-161,  
 "repeats" not included)

<400> 53  
 Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
   1                  5                  10                  15  
 Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu  
                   20                  25                  30  
 Phe Gly Ala Asn Ala Thr Val Glu Thr  
           35                  40

<210> 54  
 <211> 61  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trail-R3-Fc fusion protein of Trail-R3  
 extracellular domain (AA 121-161; "repeats"not  
 included) and huIgG1 (AA 99-120) with an  
 overlapping amino acid (TRAIL-R3 AA 160 and  
 huIgG1 AA 99)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 54  
 Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
   1                  5                  10                  15  
 Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu  
                   20                  25                  30  
 Phe Gly Ala Asn Ala Thr Val Glu Pro Lys Ser Cys Asp Lys Thr His  
           35                  40                  45  
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
   50                  55                  60

<210> 55  
 <211> 53

<212> PRT  
<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 121-161; "repeats"not  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 152 and  
huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 55

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu  
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
35 40 45

Glu Leu Leu Gly Gly  
50

<210> 56

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 121-161; "repeats"not  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 151 and huIgG1  
AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 56

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Pro  
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45

Leu Leu Gly Gly  
50



<210> 57  
<211> 55  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 121-161; "repeats"not  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 161 and  
huIgG1 AA 106)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 57  
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
1 5 10 15  
Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu  
20 25 30  
Phe Gly Ala Asn Ala Thr Val Glu Thr His Thr Cys Pro Pro Cys Pro  
35 40 45  
Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 58  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R3-Fc fusion protein of Trail-R3  
extracellular domain (AA 121-161; "repeats"not  
included) and huIgG1 (AA 99-120) with an  
overlapping amino acid (TRAIL-R3 AA 158 and  
huIgG1 AA 106)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 58  
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val  
1 5 10 15  
Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu  
20 25 30  
Phe Gly Ala Asn Ala Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45  
Leu Leu Gly Gly

<210> 59  
 <211> 386  
 <212> PRT  
 <213> human

<220>

<223> Trail-R4>sp/Q9UBN6/T10D\_HUMAN Tumor necrosis  
 factor receptor superfamily member 10D  
 precursor;Decoy receptor 2; DcR2; TNF-related  
 apoptosis-inducing ligand receptor 4)

<400> 59

Met	Gly	Leu	Trp	Gly	Gln	Ser	Val	Pro	Thr	Ala	Ser	Ser	Ala	Arg	Ala	1	5	10	15
Gly	Arg	Tyr	Pro	Gly	Ala	Arg	Thr	Ala	Ser	Gly	Thr	Arg	Pro	Trp	Leu	20	25	30	
Leu	Asp	Pro	Lys	Ile	Leu	Lys	Phe	Val	Val	Phe	Ile	Val	Ala	Val	Leu	35	40	45	
Leu	Pro	Val	Arg	Val	Asp	Ser	Ala	Thr	Ile	Pro	Arg	Gln	Asp	Glu	Val	50	55	60	
Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg	Arg	Ser	Leu	Lys	Glu	65	70	75	80
Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser	Glu	Tyr	Thr	Gly	Ala	Cys	85	90	95	
Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr	Thr	Ile	Ala	Ser	Asn	Asn	Leu	100	105	110	
Pro	Ser	Cys	Leu	Leu	Cys	Thr	Val	Cys	Lys	Ser	Gly	Gln	Thr	Asn	Lys	115	120	125	
Ser	Ser	Cys	Thr	Thr	Thr	Arg	Asp	Thr	Val	Cys	Gln	Cys	Glu	Lys	Gly	130	135	140	
Ser	Phe	Gln	Asp	Lys	Asn	Ser	Pro	Glu	Met	Cys	Arg	Thr	Cys	Arg	Thr	145	150	155	160
Gly	Cys	Pro	Arg	Gly	Met	Val	Lys	Val	Ser	Asn	Cys	Thr	Pro	Arg	Ser	165	170	175	
Asp	Ile	Lys	Cys	Lys	Asn	Glu	Ser	Ala	Ala	Ser	Ser	Thr	Gly	Lys	Thr	180	185	190	
Pro	Ala	Ala	Glu	Glu	Thr	Val	Thr	Thr	Ile	Leu	Gly	Met	Leu	Ala	Ser	195	200	205	
Pro	Tyr	His	Tyr	Leu	Ile	Ile	Ile	Val	Val	Leu	Val	Ile	Ile	Leu	Ala	210	215	220	

Val Val Val Val Gly Phe Ser Cys Arg Lys Lys Phe Ile Ser Tyr Leu  
 225 230 235 240  
 Lys Gly Ile Cys Ser Gly Gly Gly Gly Gly Pro Glu Arg Val His Arg  
 245 250 255  
 Val Leu Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly Ala Glu  
 260 265 270  
 Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr Leu Gln Pro Thr  
 275 280 285  
 Gln Val Ser Glu Gln Glu Ile Gln Gly Gln Glu Leu Ala Glu Leu Thr  
 290 295 300  
 Gly Val Thr Val Glu Ser Pro Glu Glu Pro Gln Arg Leu Leu Glu Gln  
 305 310 315 320  
 Ala Glu Ala Glu Gly Cys Gln Arg Arg Arg Leu Leu Val Pro Val Asn  
 325 330 335  
 Asp Ala Asp Ser Ala Asp Ile Ser Thr Leu Leu Asp Ala Ser Ala Thr  
 340 345 350  
 Leu Glu Glu Gly His Ala Lys Glu Thr Ile Gln Asp Gln Leu Val Gly  
 355 360 365  
 Ser Glu Lys Leu Phe Tyr Glu Glu Asp Glu Ala Gly Ser Ala Thr Ser  
 370 375 380  
 Cys Leu  
 385

<210> 60  
 <211> 41  
 <212> PRT  
 <213> human

<220>  
 <223> Trail-R4 extracellular domain (AA 171-211)

<400> 60  
 Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala  
 1 5 10 15  
 Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile  
 20 25 30  
 Leu Gly Met Leu Ala Ser Pro Tyr His  
 35 40

<210> 61

<211> 59  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R4-Fc fusion protein of Trail-R4  
extracellular domain (AA 171-211) and huIgG1 (AA  
99-120) with an overlapping amino acid (TRAIL-R4  
AA 209 and huIgG1 AA 100)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 61  
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala  
1 5 10 15  
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile  
20 25 30  
Leu Gly Met Leu Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys  
35 40 45  
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 62  
<211> 56  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R4-Fc fusion protein of Trail-R4  
extracellular domain (AA 171-211) and huIgG1 (AA  
99-120) with an overlapping amino acid (TRAIL-R4  
AA 208 and huIgG1 AA 102)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 62  
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala  
1 5 10 15  
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile  
20 25 30  
Leu Gly Met Leu Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
35 40 45  
Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 63  
<211> 45  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R4-Fc fusion protein of Trail-R4  
extracellular domain (AA 171-211) and huIgG1 (AA  
99-120) with an overlapping amino acid (TRAIL-R4  
AA 201 and huIgG1 AA 106)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 63  
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala  
1 5 10 15  
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr His  
20 25 30  
Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40 45

<210> 64  
<211> 54  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Trail-R4-Fc fusion protein of Trail-R4  
extracellular domain (AA 171-211) and huIgG1 (AA  
99-120) with an overlapping amino acid (TRAIL-R4  
AA 211 and huIgG1 AA 107)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 64  
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala  
1 5 10 15  
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile  
20 25 30  
Leu Gly Met Leu Ala Ser Pro Tyr His Thr Cys Pro Pro Cys Pro Ala  
35 40 45  
Pro Glu Leu Leu Gly Gly  
50

<210> 65  
<211> 455

<212> PRT  
<213> human

<220>

<223> TNF-R1 >sp/P19438/TR1A\_HUMAN necrosis factor  
receptor superfamily member 1A precursor (p60)  
(TNF-R1) (p55) (CD120a) [contains: Tumor necrosis  
factor binding protein 1 (TBPI)]

<400> 65

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu  
1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro  
20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys  
35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys  
50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp  
65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu  
85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val  
100 105 110

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg  
115 120 125

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe  
130 135 140

Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu  
145 150 155 160

Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu  
165 170 175

Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr  
180 185 190

Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser  
195 200 205

Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu  
210 215 220

Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys  
225 230 235 240

Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu  
245 250 255

Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser  
 260 265 270  
 Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val  
 275 280 285  
 Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys  
 290 295 300  
 Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly  
 305 310 315 320  
 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn  
 325 330 335  
 Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp  
 340 345 350  
 Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro  
 355 360 365  
 Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu  
 370 375 380  
 Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln  
 385 390 395 400  
 Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala  
 405 410 415  
 Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly  
 420 425 430  
 Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro  
 435 440 445  
 Pro Ala Pro Ser Leu Leu Arg  
 450 455

<210> 66  
 <211> 41  
 <212> PRT  
 <213> human

<220>  
 <223> TNF-R1 extracellular domain (AA 171-211)

<400> 66  
 Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
 20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr Thr  
35 40

<210> 67  
<211> 57  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 206 and huIgG1 AA 99)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 67  
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
20 25 30

Lys Gly Thr Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro  
35 40 45

Cys Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 68  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 101)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 68  
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
20 25 30



Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45

Leu Leu Gly Gly  
50

<210> 69

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 105)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 69

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
20 25 30

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40 45

<210> 70

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 70

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
20 25 30

Lys Gly Thr Glu Asp Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly  
50 55

<210> 71

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 207 and huIgG1 AA 104)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 71

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
20 25 30

Lys Gly Thr Glu Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
35 40 45

Glu Leu Leu Gly Gly  
50

<210> 72

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 211 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 72

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
 1 5 10 15  
 Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
 20 25 30  
 Lys Gly Thr Glu Asp Ser Gly Thr Thr His Thr Cys Pro Pro Cys Pro  
 35 40 45  
 Ala Pro Glu Leu Leu Gly Gly  
 50 55

<210> 73  
 <211> 54  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 210 and huIgG1 AA 106)

<220>  
 <223> Description of Artificial Sequence: fusion protein

<400> 73  
 Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys  
 1 5 10 15  
 Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val  
 20 25 30  
 Lys Gly Thr Glu Asp Ser Gly Thr His Thr Cys Pro Pro Cys Pro Ala  
 35 40 45  
 Pro Glu Leu Leu Gly Gly  
 50

<210> 74  
 <211> 461  
 <212> PRT  
 <213> human

<220>  
 <223> TNF-R2 >sp/P20333/TR1B\_HUMAN necrosis factor receptor superfamily member 1B precursor (p80) (TNF-R2) (p75) (CD120b) [contains: Tumor necrosis factor binding protein 2 (TBPII)]

<400> 74  
 Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu

1	5	10	15
Trp	Ala	Ala	Ala
20	His	Ala	Leu
Pro	Ala	Gln	Val
25	Ala	Phe	Thr
30	Pro	Tyr	
Ala	Pro	Glu	Pro
35	Gly	Ser	Thr
40	Cys	Arg	Leu
45	Arg	Glu	Tyr
50	Tyr	Tyr	Asp
55	Gln	His	Ala
60	Lys		
65	Thr	Ala	Gln
70	Met	Cys	Cys
75	Ser	Lys	Cys
80	Thr	Ser	Asp
85	Thr	Val	Cys
90	Asp	Thr	Val
95	Trp	Asn	Trp
100	Val	Pro	Glu
105	Cys	Leu	Ser
110	Cys	Leu	Ser
115	Arg	Cys	Thr
120	Gln	Val	Glu
125	Thr	Gln	Ala
130	Ala	Cys	Thr
135	Arg	Thr	Arg
140	Val	Glu	Thr
145	Pro	Gly	Trp
150	Tyr	Cys	Ala
155	Leu	Arg	Lys
160	Cys	Arg	
165	Val	Ala	Arg
170	Thr	Gly	Cys
175	Val	Glu	Gly
180	Ala	Val	Gly
185	Pro	His	Gln
190	Ile	Cys	Arg
195	Pro	Ala	Met
200	Val	Ala	Ser
205	Cys	Thr	Val
210	Thr	Ser	Thr
215	Pro	Thr	Arg
220	Ser	Thr	Ser
225	Val	Pro	Gly
230	Ala	Val	His
235	Thr	Pro	Leu
240	Ala	Pro	Gln
245	Glu	Pro	Arg
250	Gly	Pro	Glu
255	Ser	Thr	Ala
260	Thr	Leu	Gly
265	Val	Gly	Val
270	Val	Gly	Val
275	Val	Gly	Val
280	Val	Gly	Val
285	Val	Gly	Val
290	Val	Gly	Val
295	Val	Gly	Val
300	Val	Gly	Val
Ala	Asp	Lys	Ala
Arg	Gly	Thr	Gln
Gly	Pro	Glu	Gln
His	Leu	Leu	

305		310		315		320
Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser						
		325		330		335
Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly						
		340		345		350
Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser						
		355		360		365
Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile						
		370		375		380
Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln						
		385		395		400
Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro						
		405		410		415
Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser						
		420		425		430
Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro						
		435		440		445
Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser						
		450		455		460

<210> 75  
 <211> 37  
 <212> PRT  
 <213> human

<220>  
 <223> TNF-R2 extracellular domain (AA 221-257)

<400> 75
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15
Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30
Gly Ser Thr Gly Asp
35

<210> 76  
 <211> 53  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 252 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 76

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu  
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
35 40 45

Glu Leu Leu Gly Gly  
50

<210> 77

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 250 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 77

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Lys Ser  
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu  
35 40 45

Gly Gly  
50

<210> 78

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 249 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 78

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Lys Ser Cys  
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly  
35 40 45

Gly

<210> 79

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 254 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 79

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu  
20 25 30

Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
35 40 45

Leu Leu Gly Gly  
50

<210> 80  
<211> 46  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 248 and huIgG1 AA 102)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 80  
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15  
Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Cys Asp Lys Thr  
20 25 30  
His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly  
35 40 45

<210> 81  
<211> 53  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 257 and huIgG1 AA 104)

<220>  
<223> Description of Artificial Sequence: fusion protein

<400> 81  
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15  
Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu  
20 25 30  
Gly Ser Thr Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
35 40 45  
Glu Leu Leu Gly Gly  
50



<210> 82  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 255 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 82

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala  
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu  
20 25 30

Gly Ser Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly  
35 40 45

Gly